Engineering Process Improvement

Component Technical Issues Working Group

L O C K H E E D   M A R T I N

Aegis Production Program Office
MS2 – Moorestown NJ
April 29, 2008 @ LMI for PSMC

Engineering Process Improvement (EPI)

- **Engineering Process Improvement Center (EPIC)**
  - **Corporate Funded and Supported**
    - **Located in Camden NJ**
  - **Coordination of Engineering Improvement activities across all Lockheed Martin Businesses**
    - **Monthly Newsletter**
    - **Email Forums**
      - *Systems, Software, Electrical, Mechanical, Project Management, and other Focus/Working & Process Groups*
        - *PWB/CCA, Design for Six Sigma, Supportability, & Component Technology*

Engineering Process Improvement (EPI)

- **Component Technology Issues – Working Group (CTI-WG)**
  - **Formed under the Electric Subcouncil (2001)**
    - **EPI Facilitator – Bill Dreisbach, Cherry Hill NJ**
    - **Leader – Ron Watson, MS2 Baltimore, MD**
    - **Focus and prioritize component issues**
      - *Parts Management*
      - *Obsolescence Risk Management*
      - *Technology Refresh Prediction*
      - *Technology Roadmapping*
      - *Tools & Services Evaluation*

Lockheed Martin EPI Developed Plans

- **LM EPI Developed Plans**
  - **Parts Management Plan Guideline**
    - **Complies with EIA 4899 and others**
  - **Obsolescence Management Plan Guideline**
    - ***Supporting Lockheed Martian business needs***
      - Defense MicroElectronic Activity (DMEA)
        - » Contractual Requirements
      - EIA – Bulletin GEB1 DMSMS Management Practices
        - » Entry Level Management Practices

PMPG Purpose

- *PMPG Purpose*
  - *To standardize part management plans across Lockheed Martin companies*
    - *Terms & Definitions*
      - CTI-WG Lexicon
    - *General Component Application*
    - *Qualification Requirements*
    - *Component Data Control*

PMPG Purpose

- *Improve risk Mitigation and Management*
  - *Component Reliability and Dependability*
  - *Component Obsolescence Management*
- *Leverage resources across Lockheed Martin companies*
  - *EPIC*

Obsolescence Management Plan Guidelines Purpose

- *OMPG Purpose*
  - *To standardize obsolescence management processes across Lockheed Martin companies*
    - *Terms & Definitions*
      - CTI-WG Lexicon
    - *Responsibilities*
  - *Approach to Obsolescence Solutions*
    - *Tool, service, and applications*
- *Leverage resources across Lockheed Martin companies*
  - *EPIC*